

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P638190

Luminaire Tested: **IFLD-S-SA2D-750-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638190  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-750-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12305.2 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

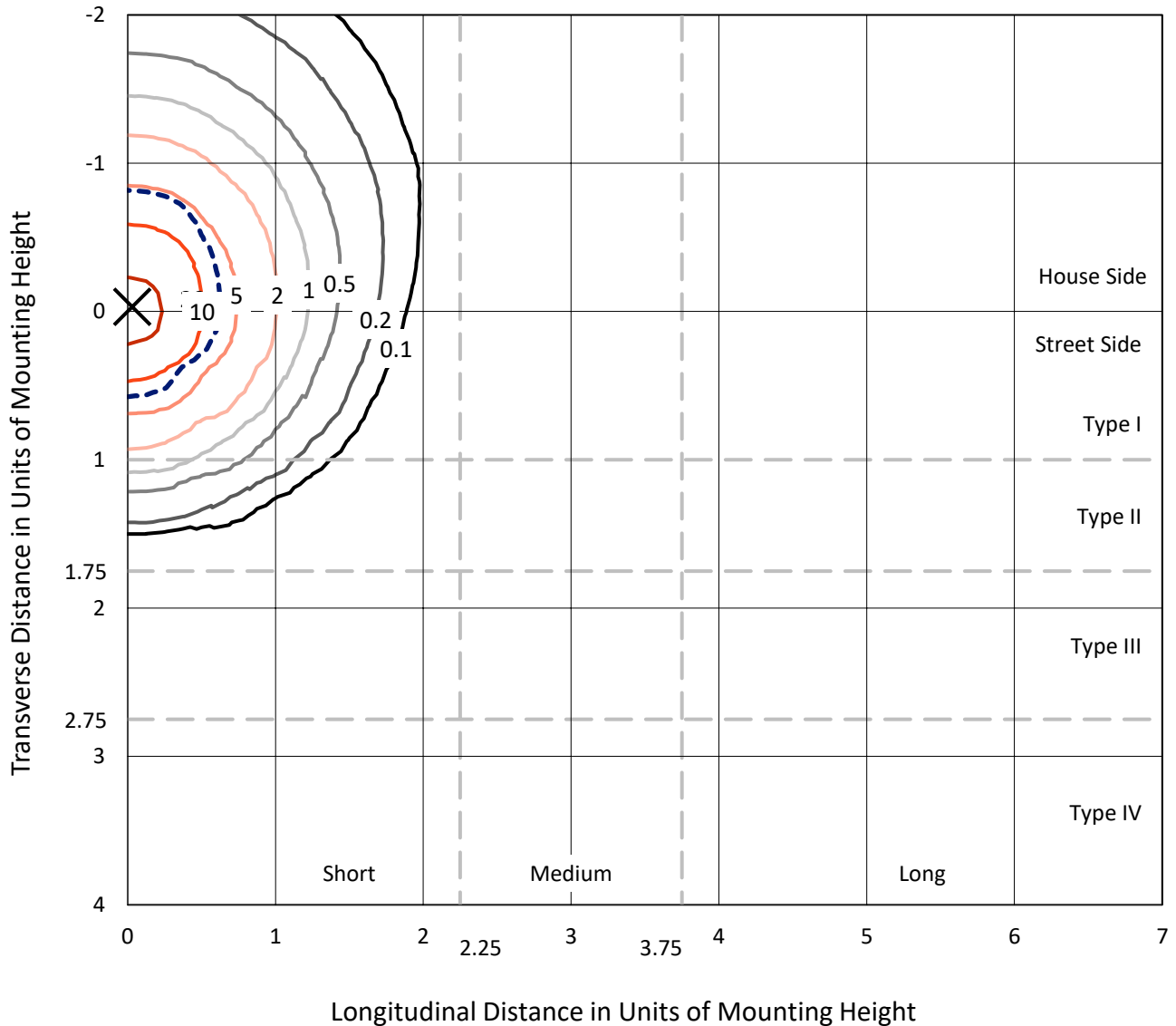
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638190  
 CATALOG NUMBER: IFLD-S-SA2D-750-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

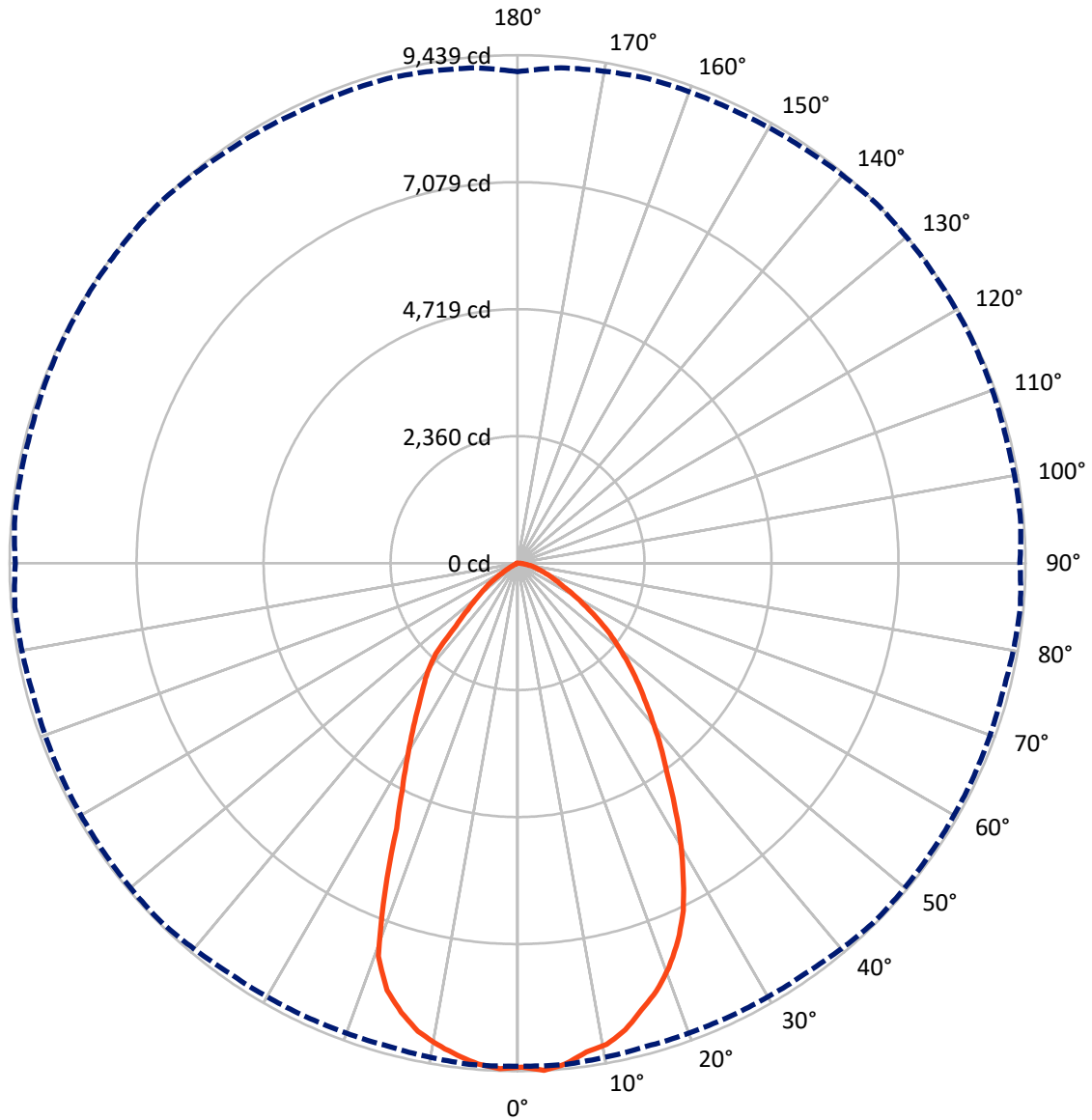
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P638190  
CATALOG NUMBER: IFLD-S-SA2D-750-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638190

CATALOG NUMBER: IFLD-S-SA2D-750-U-77-VI

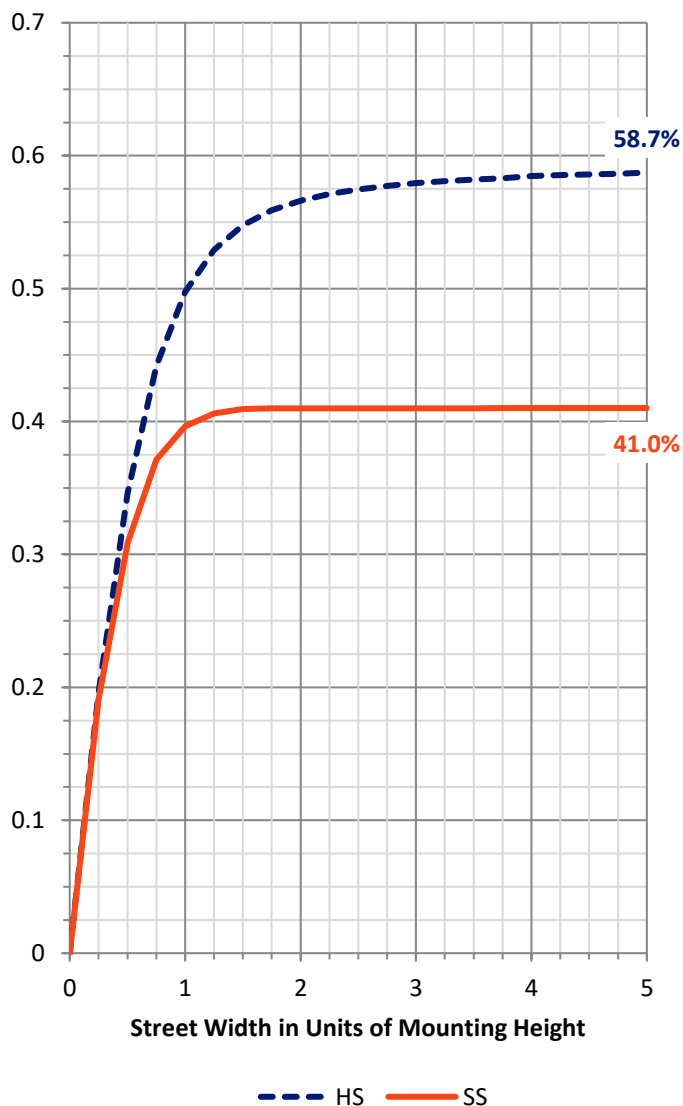
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7287.7	0.0	7287.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5017.4	0.0	5017.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	12305.2	0.0	12305.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.2	7.1
10°-20°	2355.0	19.1
20°-30°	2872.0	23.3
30°-40°	2622.1	21.3
40°-50°	1895.0	15.4
50°-60°	1034.7	8.4
60°-70°	427.8	3.5
70°-80°	173.3	1.4
80°-90°	47.1	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12305.2	100.0
0°-180°	12305.2	100.0



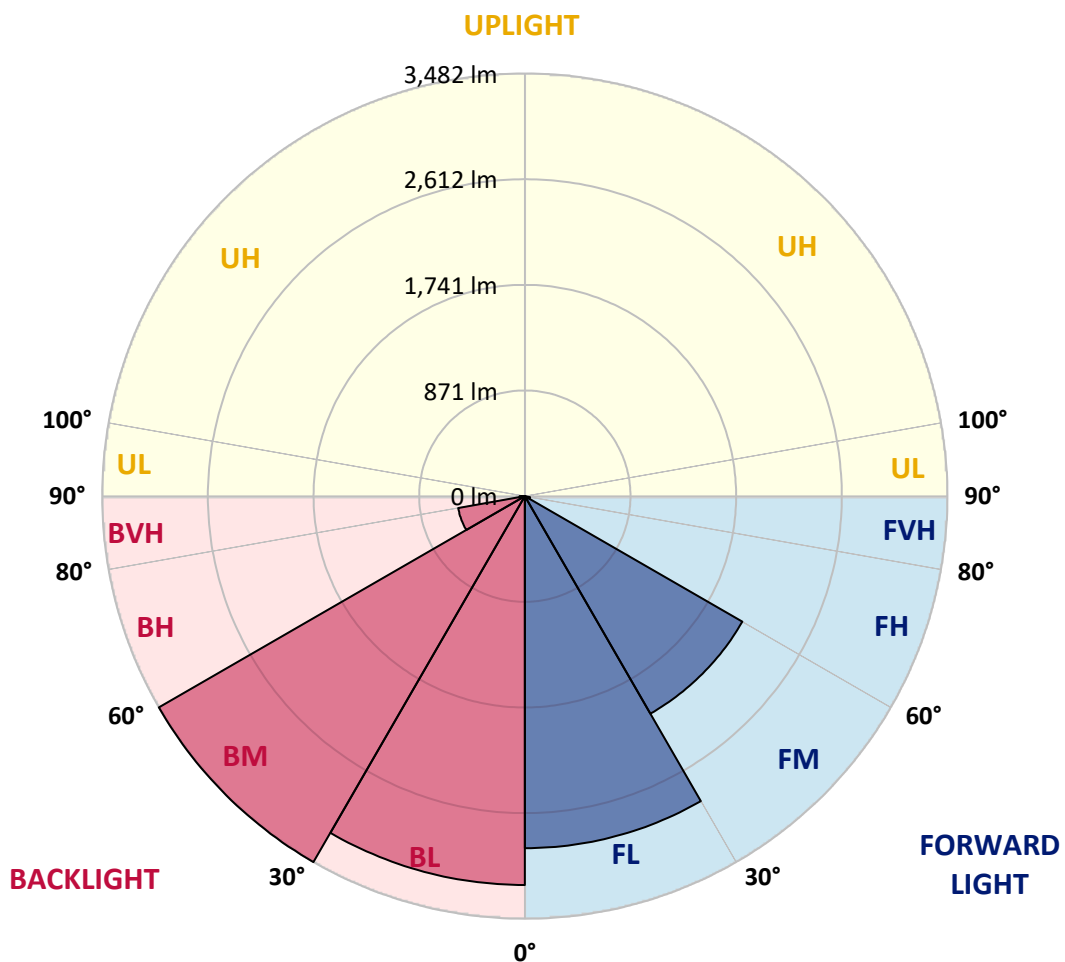
REPORT NUMBER: P638190  
 CATALOG NUMBER: IFLD-S-SA2D-750-U-77-VI

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2900.8	23.6			
FM (30°-60°)	2069.5	16.8			
FH (60°-80°)	43.4	0.4			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	3204.4	26.0	B4/5000		
BM (30°-60°)	3482.2	28.3	B3/5000		
BH (60°-80°)	557.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	43.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





REPORT NUMBER: P638190  
 CATALOG NUMBER: IFLD-S-SA2D-750-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2
2.5°	9346.9	9359.0	9293.1	9300.1	9312.2	9400.6	9378.0	9357.3	9327.8	9378.0
5°	9334.7	9341.7	9272.3	9248.1	9258.5	9338.2	9265.4	9265.4	9258.5	9249.8
7.5°	9241.2	9244.6	9190.9	9147.6	9175.3	9211.7	9158.0	9184.0	9145.8	9175.3
10°	9100.8	9078.3	9014.2	9002.0	9033.2	9067.9	9031.5	9055.7	9021.1	9043.6
12.5°	8894.6	8859.9	8807.9	8792.4	8846.1	8892.9	8863.4	8849.5	8804.5	8859.9
15°	8099.2	8073.2	8191.1	8397.3	8582.7	8622.5	8591.3	8605.2	8511.6	8527.2
17.5°	6666.2	6617.7	6744.2	7232.8	7929.4	8296.8	8269.0	8178.9	8040.3	8071.5
20°	6058.0	6044.1	6030.2	6146.3	6633.3	7747.5	7785.6	7556.8	7359.3	7316.0
22.5°	5714.9	5709.7	5695.8	5721.8	5850.0	6565.7	7002.3	6790.9	6659.2	6647.1
25°	5401.2	5392.6	5351.0	5383.9	5383.9	5425.5	5985.2	6113.4	5997.3	5983.4
27.5°	5082.4	5066.8	5059.8	5075.4	4995.7	4715.0	4857.1	5482.7	5422.0	5425.5
30°	4737.5	4732.3	4713.3	4746.2	4500.1	4151.8	4061.7	4910.8	4923.0	4919.5
32.5°	4224.6	4247.2	4333.8	4370.2	3964.7	3677.1	3526.3	4248.9	4496.7	4491.5
35°	3068.8	3068.8	3351.3	3876.3	3474.3	3257.7	3176.3	3602.5	4075.6	4092.9
37.5°	2523.0	2531.7	2587.1	2826.2	2997.8	2921.5	2897.3	3032.4	3535.0	3562.7
40°	2270.0	2270.0	2270.0	2171.2	2166.0	2632.2	2618.3	2575.0	3053.2	3113.9
42.5°	2039.5	2044.7	2048.2	1798.7	1660.0	2275.2	2244.0	2178.2	2621.8	2692.8
45°	1802.1	1810.8	1821.2	1504.1	1443.4	1637.5	1899.2	1826.4	2195.5	2287.3
47.5°	1100.3	1114.2	1349.9	1275.4	1282.3	1263.2	1549.1	1537.0	1800.4	1930.4
50°	743.4	748.6	771.1	809.2	1100.3	992.9	1096.9	1271.9	1367.2	1564.7
52.5°	623.8	632.5	577.0	525.0	722.6	776.3	765.9	944.4	982.5	1226.8
55°	438.4	466.1	440.1	434.9	410.7	603.0	580.5	726.1	750.3	932.3
57.5°	45.1	52.0	90.1	324.0	268.6	341.4	414.1	532.0	556.2	687.9
60°	3.5	3.5	8.7	45.1	195.8	204.5	285.9	327.5	374.3	480.0
62.5°	0.0	1.7	3.5	6.9	31.2	109.2	143.8	171.5	225.3	310.2
65°	0.0	0.0	1.7	5.2	6.9	41.6	55.5	90.1	123.0	192.3
67.5°	0.0	0.0	1.7	3.5	5.2	10.4	19.1	32.9	65.8	109.2
70°	0.0	0.0	1.7	3.5	5.2	8.7	13.9	20.8	29.5	58.9
72.5°	0.0	0.0	1.7	1.7	3.5	8.7	10.4	13.9	20.8	29.5
75°	0.0	0.0	1.7	1.7	5.2	10.4	8.7	10.4	13.9	19.1
77.5°	0.0	0.0	1.7	3.5	5.2	10.4	8.7	10.4	10.4	12.1
80°	0.0	0.0	1.7	3.5	6.9	12.1	10.4	10.4	8.7	8.7
82.5°	0.0	0.0	1.7	5.2	6.9	15.6	15.6	13.9	6.9	5.2
85°	0.0	0.0	3.5	6.9	10.4	17.3	17.3	13.9	5.2	3.5
87.5°	0.0	0.0	3.5	5.2	8.7	12.1	17.3	13.9	5.2	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638190

CATALOG NUMBER: IFLD-S-SA2D-750-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9364.2	0°	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2	9364.2
9334.7	2.5°	9381.5	9371.1	9405.8	9419.6	9438.7	9365.9	9320.9	9322.6	9239.4
9229.0	5°	9284.5	9286.2	9331.3	9327.8	9346.9	9307.0	9289.7	9260.2	9187.4
9095.6	7.5°	9161.4	9145.8	9189.2	9222.1	9173.6	9201.3	9161.4	9175.3	9132.0
8977.8	10°	9066.1	9029.8	9069.6	9092.1	9093.9	9066.1	9028.0	8991.6	8976.0
8794.1	12.5°	8854.7	8807.9	8875.5	8906.7	8901.5	8847.8	8804.5	8813.1	8762.9
8471.8	15°	8563.6	8565.4	8613.9	8643.3	8615.6	8603.5	8606.9	8586.1	8542.8
8026.4	17.5°	8118.3	8144.3	8272.5	8343.6	8359.1	8334.9	8322.8	8298.5	8255.2
7316.0	20°	7376.6	7532.6	7761.3	7981.4	8024.7	8017.8	7974.5	7964.1	7939.8
6612.5	22.5°	6725.1	6841.2	7106.3	7449.4	7626.2	7643.5	7591.5	7575.9	7549.9
5983.4	25°	6051.0	6175.8	6414.9	6787.5	7153.1	7227.6	7218.9	7172.2	7144.4
5425.5	27.5°	5482.7	5607.4	5824.0	6160.2	6551.8	6790.9	6813.5	6739.0	6737.2
4928.2	30°	4969.7	5141.3	5305.9	5579.7	5959.2	6317.9	6356.0	6304.0	6309.2
4472.4	32.5°	4567.7	4709.8	4850.2	5033.9	5349.2	5766.8	5915.9	5867.3	5848.3
4092.9	35°	4157.0	4254.1	4397.9	4566.0	4780.9	5195.0	5453.2	5416.8	5397.7
3580.0	37.5°	3689.2	3855.5	3959.5	4148.4	4316.5	4645.7	5009.6	5004.4	4964.5
3143.3	40°	3209.2	3384.2	3541.9	3732.5	3862.5	4124.1	4527.9	4526.1	4531.3
2691.1	42.5°	2774.3	2935.4	3126.0	3334.0	3458.7	3649.3	4082.5	4106.8	4136.3
2318.5	45°	2380.9	2526.5	2703.2	2956.2	3107.0	3216.1	3600.8	3711.7	3710.0
1985.8	47.5°	2027.4	2164.3	2313.3	2559.4	2751.7	2850.5	3169.3	3327.0	3316.6
1628.9	50°	1701.6	1822.9	1978.9	2157.4	2415.6	2502.2	2739.6	2947.5	2931.9
1297.9	52.5°	1368.9	1537.0	1668.7	1831.6	2103.6	2188.6	2372.2	2575.0	2562.8
973.8	55°	1067.4	1230.3	1389.7	1530.1	1758.8	1885.3	2017.0	2224.9	2221.5
762.4	57.5°	807.5	986.0	1136.7	1270.2	1452.1	1608.1	1713.8	1902.6	1926.9
521.6	60°	597.8	734.7	897.6	1046.6	1190.5	1351.6	1422.6	1608.1	1618.5
357.0	62.5°	407.2	558.0	717.4	852.5	960.0	1126.3	1190.5	1342.9	1362.0
228.7	65°	282.5	379.5	561.4	658.5	790.2	932.3	996.4	1117.7	1155.8
131.7	67.5°	187.1	270.3	438.4	526.8	656.7	753.8	835.2	934.0	975.6
83.2	70°	102.2	199.3	313.6	415.9	528.5	622.1	701.8	781.5	817.9
38.1	72.5°	69.3	133.4	218.3	329.2	426.3	518.1	589.2	648.1	649.8
22.5	75°	34.7	90.1	166.4	254.7	332.7	422.8	486.9	521.6	480.0
13.9	77.5°	20.8	65.8	135.2	204.5	270.3	341.4	377.8	396.8	329.2
10.4	80°	12.1	46.8	105.7	162.9	187.1	251.3	285.9	291.1	220.1
6.9	82.5°	8.7	34.7	83.2	119.6	114.4	176.7	214.9	207.9	140.4
5.2	85°	5.2	24.3	52.0	74.5	69.3	116.1	124.8	128.2	81.4
3.5	87.5°	3.5	13.9	27.7	39.9	32.9	50.3	50.3	60.6	39.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
9364.2
9132.0
9170.1
9059.2
8906.7
8719.6
8499.5
8236.1
7884.4
7543.0
7115.0
6733.8
6283.2
5850.0
5371.8
4997.5
4531.3
4120.7
3713.4
3320.1
2945.8
2588.8
2230.1
1916.5
1634.1
1365.5
1147.1
970.4
804.0
634.2
448.8
317.1
206.2
130.0
74.5
34.7
0.0

(END OF REPORT)